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# XML Flight Products

## Code 582 / David McComas



# Goals, Objectives, Benefits

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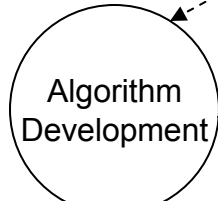
- Use XTCE to define flight software (FSW) application external interfaces
  - Commands, Telemetry, Tables, and Events
- Improve FSW development process
  - Single interface definition
  - Automatic generation of flight code, ground database, and documentation from the single source definition
- Provide standards-based interface definitions for Code 582 library components



# Approach

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- Analyze the FSW development process
  - Identify how FSW Application interfaces are defined and used in the process
- Define selected FSW Application interfaces using XTCE
- Develop prototypes for generating products from the XTCE



- The dashed lines indicate the FSW library is currently not part of the development. However, it should be shortly.



# Results, Status, Next Steps

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- The effort has just started so no status to report
- First step is to get the tasks in place
- Technical steps include
  - Analyze the FSW development process
  - Define selected FSW Application interfaces using XTCE
  - Develop prototypes for generating products from the XTCE
- Potential future directions
  - Define stored commands using XTCE
  - Develop a cFE Application development environment that produces Application interface definitions in XTCE